

Converters

IndraDrive C HCS03



Converters

IndraDrive C ■ HCS03**Documentation**

- Operating instructions
- Project planning manual
- Firmware

Technical data

		HCS03.1E-W0070	HCS03.1E-W0100	HCS03.1E-W0150	HCS03.1E-W0210
Performance data					
Continuous current	[A]	45	73	95	145
Maximum current	[A]	70	100	150	210
Motor rated capacity, typical	[kW]	22	37	45	75
Mains connection voltage	3 AC	400...500 V			
Tolerance	[%]	+10 -15 %			
Frequency		50...60 Hz			
Frequency tolerance	[Hz]	± 2 Hz			
Continuous current mains input	[A]	50	80	106	146
Power dependency from the supply voltage	$U_{LN} < 400 \text{ V}$	1% power reduction per 4 V			
	$U_{LN} > 400 \text{ V}$	1% power gain per 5 V			
Mains contactor		External			
Intermediate circuit					
Continuous power with choke	[kW]	25	43	56	85
Max. power with choke	[kW]	40	59	89	124
Continuous power without choke	[kW]	13	24	34	47
Max. power without choke	[kW]	20	33	54	68
Switching frequency/max. output frequency	4 kHz	0 ... 400 Hz			
	8 kHz	0...800 Hz			
	12 kHz	0...1200 Hz			
	16 kHz	0...1600 Hz			
Output voltage	[V]	3 x AC 0...480 V			
Intermediate circuit capacity	[mF]	0.94	1.44	1.88	4.7

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Intermediate circuit voltage	[V] DC	Mains connection voltage x 1.41			
Ability to combine converter/inverter		●			
Brake chopper / resistor					
Braking resistance		External			
Brake chopper		Internal			
Braking energy consumption	[kWs]	42	63	97	137
Continuous braking power	[kW]	13.2	18.9	25.2	42.6
Control voltage					
Control voltage	External	24V ± 20%			
	Internal	24 V			
Power consumption without control section and motor holding brake	[W]	22.5	25		30
Protection					
Degree of protection whole		IP20 (IEC529)	IP20 (IEC529)	IP20 (IEC529)	IP20 (IEC529)
Degree of pollution		2 (EN50178)	2 (EN50178)	2 (EN50178)	2 (EN50178)
EMC		EN 61800-3	EN 61800-3	EN 61800-3	EN 61800-3
Cooling type		Air cooling	Air cooling	Air cooling	Air cooling
Norms and standards					
Certification		EN 61800-5-1, UL 508 C	EN 61800-5-1, UL 508 C	EN 61800-5-1, UL 508 C	EN 61800-5-1, UL 508 C
		Canadian National Standard(s) C22.2 No. 14-05			

All data for nominal rating at 3 AC 400 V mains voltage and 4 kHz switching frequency

Dimensions

		HCS03.1E-W0070	HCS03.1E-W0100	HCS03.1E-W0150	HCS03.1E-W0210
Dimensions					
Height H	[mm]	490	490	490	490
Width B	[mm]	125	225	225	350
Depth T	[mm]	262	262	262	262

Components**Control units**

Description	Page	Details
Control units	Single-axis	BASIC ANALOG

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Description	Page	Details
Control units	Single-axis	BASIC OPEN LOOP
Control units	Single-axis	BASIC PROFIBUS
Control units	Single-axis	BASIC SERCOS
Control units	Single-axis	BASIC UNIVERSAL
Control units	Single-axis	ADVANCED

Accessories**Auxiliary components**

Description		
Accessories	Brake units	HLB
Accessories	Brake resistors	HLR
Accessories	Motor filters	HMF
Accessories	Mains chokes	HNL
Accessories	Mains filter	HNF
Accessories	Mains filters with integrated mains choke	HNK
Accessories	Capacity module	HLC

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It must be remembered that our products are subject to a natural process of wear and aging.